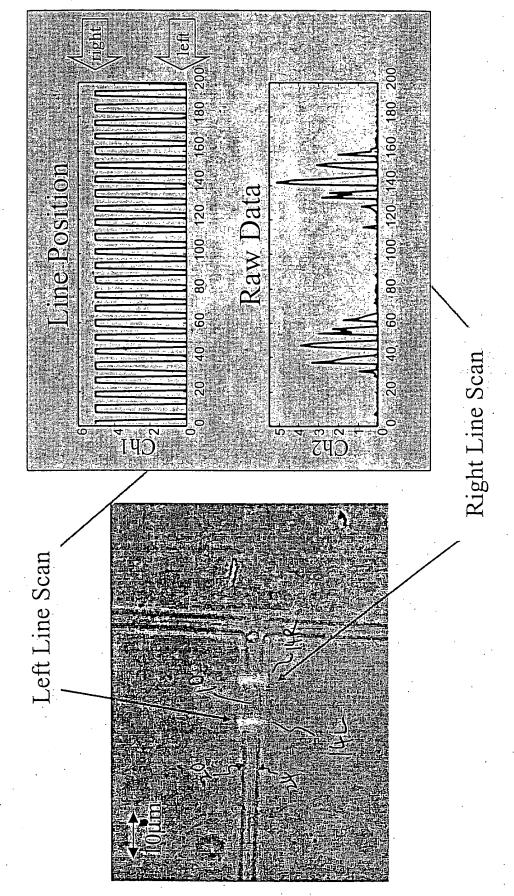


Slow

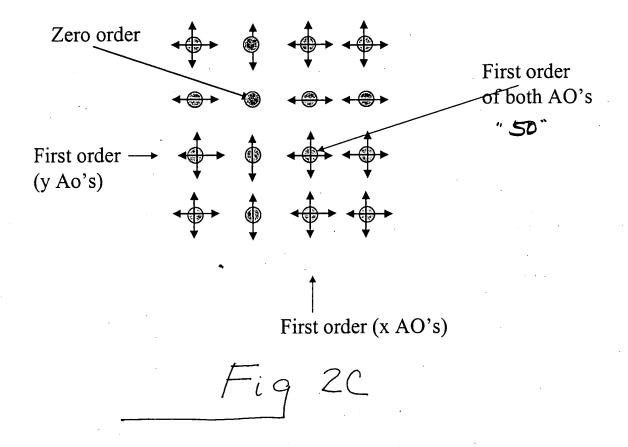
BEST AVAILABLE COPY

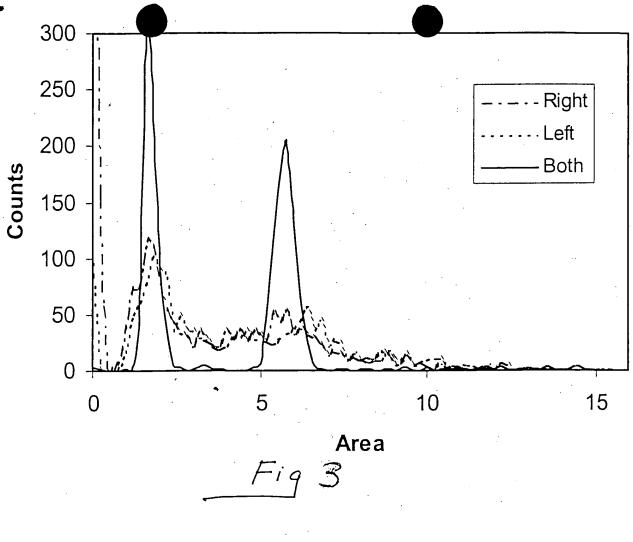


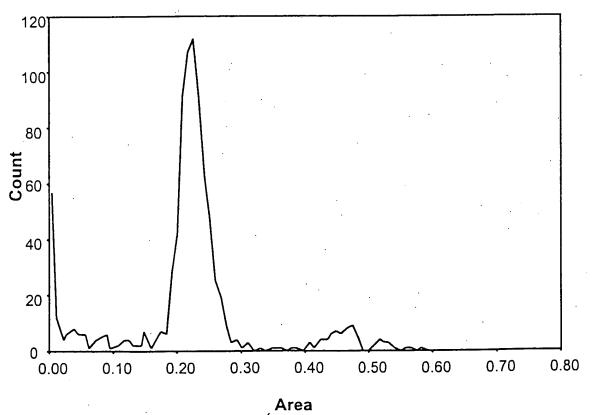
BEST AVAILABLE COPY

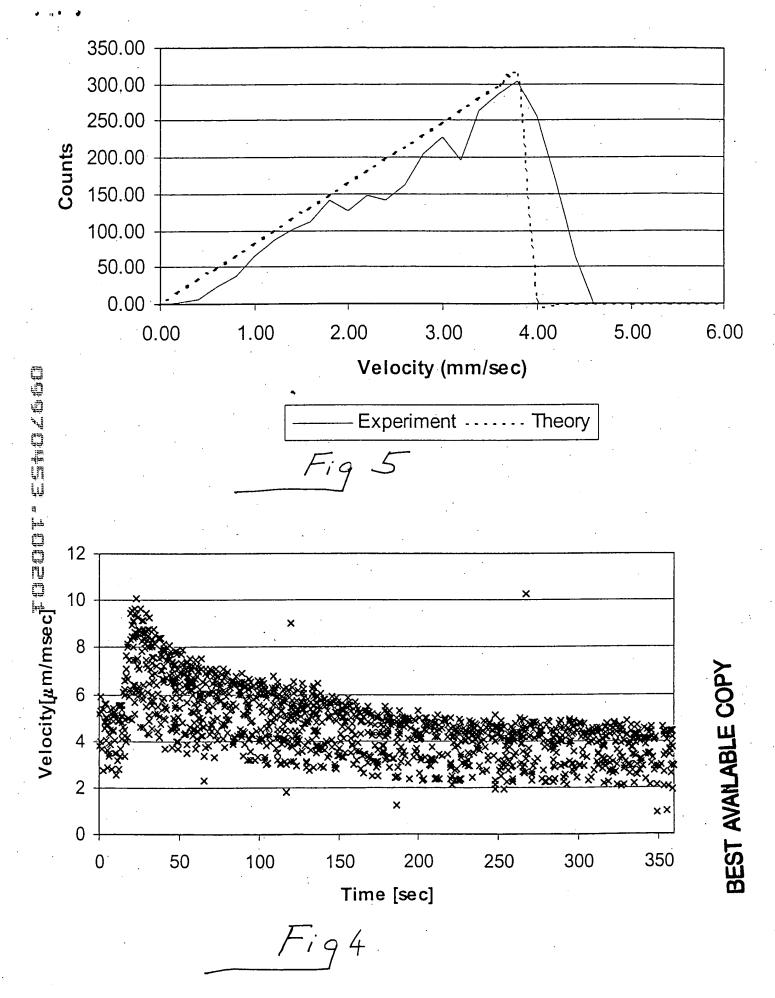
Fig 2B

The beam after the two Acusto Optics Modulators









ChDiv

Input - two vectors: Y(i) - channel 1 - square wave - chopping signal, 0<=Yi<=1

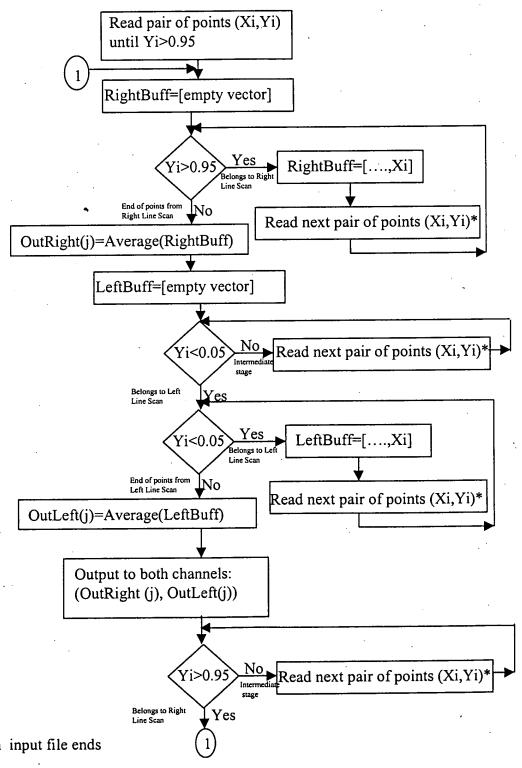
X(i) - channel 2 - fluorescence raw data - from the detecting region (both line scan)

Usually Sampled at 40KHz

Output - two vectors: OutRight(j) - fluorescence from Right Line scan
OutLeft (j) - fluorescence from Left Line scan

Usually Sampled at 5KHz

The sampling rate of the output channels allways equals the frequency of the chopping signal



* Program ends when input file ends

Fig 7

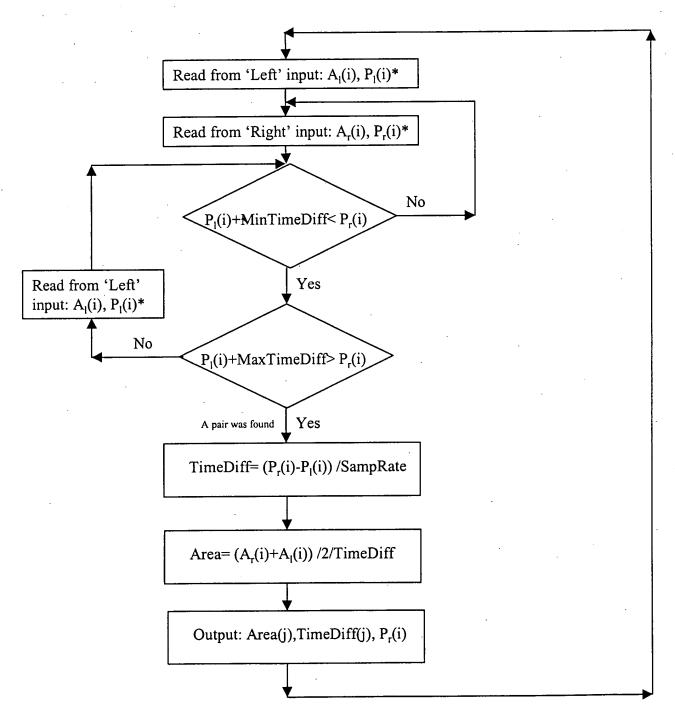
ArVlAnalyzer

Input: two files (one for each line scan).

Each file contain 2 vectors one of Positions (P(i)) and the other has the corresponding Area (A(i))

Output: three vectors - Area, TimeDiff (inversely proportional to velocity), Position

Parameters that can be determined - MinTimeDiff, MaxTimeDiff



Position is presented in point number and not time TimeDiff is in Seconds and is inversely proportional to the velocity

* Program ends when one of the input files ends

